

liquor, both from that I had cut, and that I had cut it from, without pressure.

Which made me think, that the motion of this Plant upon touching, might be from this, that there being a constant *intercourse* betwixt every part of this Plant and its root, either by a *circulation* of this liquor, or a constant pressing of the subtiler parts of it to every extremity of the Plant. Upon every pressure, from whatsoever it proceeds, greater then that which keeps it up, the subtile parts of this liquor are thrust downwards, towards its *articulations* of the leaves, where, not having room presently to get into the sprig, the little round *pedunculus*, from whence the *Spine* and those oblique *Fibres* I mention'd rise, being dilated, the *Spine* and *Fibres* (being continued from it) must be contracted and shortned, and so draw the leaf upwards to joyn with its fellow in the same condition with it self, where, being closed, they are held together by the implications of the little whitish hair, as well as by the still retreating liquor, which distending the *Fibres* that are continued lower to the branch and root, shorten them above; and when the liquor is so much forced from the Sprout, whose *Fibres* are yet tender, and not able to support themselves, but by that tensness which the liquor filling their *interstices* gives them, the Sprout hangs and flags.

But, perhaps, he that had the ability and leisure to give you the exact *Anatomy* of this pretty Plant, to shew you its *Fibres*, and visible *Canals*, through which this fine liquor circulateth, or is moved, and had the faculty of better and more copiously expressing his Observations and conceptions, such a one would easily from the motion of this liquor, solve all the *Phænomena*, and would not fear to affirm, that it is no obscure sensation this Plant hath. But I have said too much, I humbly submit, and am ready to stand corrected.

I have not yet made so full and satisfactory Observations as I desire on this Plant, which seems to be a Subject that will afford abundance of information.

information. But as far as I have had opportunity discovered with my *Microscope* very curious structure, but designing much more accurate examinations and *Microscope*, and otherwise, as soon as the season will permit, then add any thing of what I have already taken notice of. I have yet observ'd, I judge the motion of it to proceed differently from those by which Cut-strings, or Lute-strings, wilde Oat, or the beard of the Seeds of *Geranium*, grass and other of kinds of *Cranes-bill*, move themselves, add more in the subsequent Observations on those bodies.

Observ. XIX. Of a Plant growing in the blights of Damask-rose-leaves, Bramble-leaves, and other of leaves.

I Have for several years together, in the Month of August and September (when any of the green leaves of *Roses* grow yellow) observ'd many of them, especially the shrubs of *Damask-Roses*, all bespecked with yellow stains just against them, to have little yellow hillocks in the same, and several of them to have small black spots in the yellow ones, which, to the naked eye, appear'd no bigger than a Pin, or the smallest black spot or tittle of Ink on paper, with a very sharp pointed Pen.

Examining these with a *Microscope*, I was able plainly to see and down the surface, several small yellow knobs, of a red gummy substance, out of which I perceiv'd there were of little cases or black bodies like Seed-cods, and were quite without the hillock of Gum, disclos'd to the out of it with a small Straw-colour'd and transparent seed and stem appear'd very like those of common Moss (where describe) but that they were abundantly less, them being not able to equalize one single seed Cod of Moss.

I have often doubted whether they were the seed of the Plant, or some kind of small Buds, or the Eggs of some Insect, they appear'd of a dark brownish red, some almost quare Figure much resembling the seed-cod of Moss, but that they grew were of a very fine transparent substance, all of mould, but that they seem'd somewhat more yellow.

That which makes me to suppose them to be Vegetables, I perceiv'd many of those hillocks bare or destitute, as yet conceal'd, as G. In others of them, they were just sprouting gummy hillocks, which all seem'd to shoot directly out of others, as at B, I found them just gotten out, with very